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CLAIMS

1. An antifouling paint composition, comprising:

a resin of 5 to 20 weight%;

a solvent of 3 to 30 weight%;

polyhexamethyleneguanidine salt of the following chemical formula 1 of 0.05 to 20 weight%;

a pigment of 1 to 50 weight%; and

cuprous oxide of 22 to 75 weight% and/or zinc pyrithione of the following chemical formula 2 of 0.05 to 20 weight%.

[Chemical formula 1]

$$\begin{array}{c} & \text{NH X} \\ \text{II} \\ \text{R}_1 \text{-NH -C-NH} & \text{(CH}_2)_8 \text{-NH -C-NH} & \text{NH X} \\ \end{array}$$

[Chemical formula 2]

In chemical formula 1, X can be the same or different, and at least one of X is an inorganic acid salt or an organic acid salt; R₁ can be the same or different, and is a linear or branched alkyl group containing from 1 to 20 carbon atoms, a phenyl group, a chlorophenyl group, a bromophenyl group, an iodophenyl group, a benzyl group, a chlorobenzyl group, a bromobenzyl group, a iodobenzyl group, a phenethyl group, a naphthyl group or a hydrogen; and n is an integer of 1 or more.

2. The antifouling paint composition according to claim 1, wherein the paint composition comprises a resin of 5 to 20 weight%, a solvent of 3 to 25 weight%,

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polyhexamethyleneguanidine salt of chemical formula 1 of 1 to 15 weight%, cuprous oxide of 22 to 75 weight% and a pigment of 1 to 19 weight%.

- 3. The antifouling paint composition according to claim 1, wherein the paint composition comprises a resin of 10 to 15 weight%, a solvent of 20 to 30 weight%, polyhexamethyleneguanidine salt of chemical formula 1 and zinc pyrithione of chemical formula 2 of total 5 to 20 weight%, and a pigment of 40 to 50 weight%, and the amount of the zinc pyrithione is 0.01 to 100 times of the amount of the polyhexamethylenequanidine salt by weight.
- 4. The antifouling paint composition according to claim 1, wherein X can be the same or different, and at least one of X is selected from the group consisting of HCI, HBr, HI, HNO₃, carbonic acid, sulfuric acid, phosphoric acid, acetic acid, benzoic acid, dehydroacetic acid, propionic acid, gluconic acid, sorbic acid, fumaric acid, maleic acid, and epichlorohydrin.
- 5. The antifouling paint composition according to claim 1, wherein the molecular weight of polyhexamethyleneguanidine salt is 500 to 20,000.
- 6. The antifouling paint composition according to claim 1, wherein the solvent is selected from the group consisting of xylene, methylethylketone, methylisobutylketone, and the mixtures thereof.
- 7. The antifouling paint composition according to claim 1, wherein the

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pigment is selected from the group consisting of titanium oxide, zinc oxide, iron oxide, and the mixtures thereof.

- 8. The antifouling paint composition according to claim 1, further comprising a gelling agent of 1 to 5 weight% on the basis of total paint composition.
- 9. The antifouling paint composition according to claim 1, wherein the resin is selected from the group consisting of vinyl resin, urethane resin, chlorinated rubber resin, phthalic resin, alkyd resin, epoxy resin, phenol resin, melamine resin, acrylic resin, fluoro resin, silicone resin, rosin, and the mixtures thereof.
- 10. The antifouling paint composition according to claim 1, further comprising compound selected from the group consisting of 3-iodo-2-propynyl butylcarbamate, diiodomethyl-p-tolylsulfone, 1,2-benzoisothiazolin-3-one, methylthio-4-tert-butylamino-6-cyclopropylamino-s-triazine, 2-(4thiocyanomethylthio) benzothiazole, 2,3,5,6-tetrachloro-4-(methylsulfonyl) pyridine, 3-(3,4-dichlorophenyl)-1,1-dimethylurea, 2-n-octyl-4-isothiazolin-3-one, tetrachloroisophthalonitrile, N-(fluorodichloromethylthio)-phthalimide, Ndichlorofluoromethylthio-N',N'-dimethyl-N-p-tolylsulfamide, α -[2-(4chlorophenyl)ethyl]- α -(1,1-dimethylethyl)-1H-1,2,4-triazole-1-ethanol, N₁N₋ dimethyl-N'-phenyl-(fluorodichloromethylthio)-sulphamide, zinc(2-pyridylthio-1oxide), copper (2-pyridylthio-1-oxide), silver compound, and the mixtures thereof.